

## 6. Abstract

A system and method for realizing soft handoff in an IP network is disclosed. Packets from a correspondent host are copied at a serving base station with a first set being transmitted to a mobile station as RLP PDUs and the second set encapsulated with a header directing the second set to a target base station. The encapsulated packets are decapsulated and forwarded to the mobile station as a second set of RLP PDUs. The PDUs are combined in the mobile station and IP-in-IP soft handoff is achieved.